

01-17-01

JC06 Rec'd PCT/PTO 16 JAN 2001  
EL697765310US PCT

FORM PTO-1390 (Modified) (REV. 11-98)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER <b>1414.501U2</b>	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR T/B/A - <b>09/744097</b>	
INTERNATIONAL APPLICATION NO. <b>PCT/US99/16242</b>		INTERNATIONAL FILING DATE <b>16 July 1999</b>		PRIORITY DATE CLAIMED <b>17 July 1998</b>	
TITLE OF INVENTION <b>METHODS FOR DETECTING AND MAPPING GENES, MUTATIONS AND VARIANT POLYNUCLEOTIDE SEQUENCES</b>					
APPLICANT(S) FOR DO/EO/US <b>SHAFER, David A.</b>					
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
<div>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</div> <div>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</div> <div>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).</div> <div>4. <input checked="" type="checkbox"/> A proper Demand-for-International-Preliminary-Examination was made by the 19th month from the earliest claimed priority date.</div> <div>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c) (2))<div>a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</div><div>b. <input type="checkbox"/> has been transmitted by the International Bureau.</div><div>c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</div></div> <div>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)).</div> <div>7. <input type="checkbox"/> A copy of the International Search Report (PCT/ISA/210).</div> <div>8. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))<div>a. <input checked="" type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</div><div>b. <input type="checkbox"/> have been transmitted by the International Bureau.</div><div>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</div><div>d. <input type="checkbox"/> have not been made and will not be made.</div></div> <div>9. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</div> <div>10. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</div> <div>11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409).</div> <div>12. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</div>					
Items 13 to 20 below concern document(s) or information included:					
<div>13. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</div> <div>14. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</div> <div>15. <input type="checkbox"/> A <b>FIRST</b> preliminary amendment.</div> <div>16. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</div> <div>17. <input type="checkbox"/> A substitute specification.</div> <div>18. <input checked="" type="checkbox"/> A change of power of attorney and/or address letter.</div> <div>19. <input checked="" type="checkbox"/> Certificate of Mailing by Express Mail</div> <div>20. <input checked="" type="checkbox"/> Other items or information:</div>					
<div>Check for \$80.00 for recording of Assignments</div> <div>Verified Statement Claiming Small Entity Status (37 CFR 1.9(f) &amp; 1.27(c))</div> <div>Statement Under 37 C.F.R. 3.73(b) with copies of Assignments</div> <div>Return Receipt Postcard</div>					

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.492) <b>09/744,097</b>		INTERNATIONAL APPLICATION NO. <b>PCT/US99/16242</b>		ATTORNEY'S DOCKET NUMBER <b>1414.501U2</b>	
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21. The following fees are submitted:.				<b>CALCULATIONS PTO USE ONLY</b>	
<b>BASIC NATIONAL FEE ( 37 CFR 1.492 (a) (1) - (5)) :</b> <input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... <b>\$1,000.00</b> <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... <b>\$860.00</b> <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... <b>\$710.00</b> <input checked="" type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... <b>\$690.00</b> <input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) ..... <b>\$100.00</b> <p style="text-align: center;"><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b></p>				<b>\$690.00</b>	
Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492 (e)). <input type="checkbox"/> 20 <input type="checkbox"/> 30				<b>\$0.00</b>	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	57 - 20 =	37	x \$18.00	<b>\$666.00</b>	
Independent claims	9 - 3 =	6	x \$80.00	<b>\$480.00</b>	
Multiple Dependent Claims (check if applicable). <input type="checkbox"/>				<b>\$0.00</b>	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$1,836.00</b>	
Reduction of 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28) (check if applicable). <input checked="" type="checkbox"/>				<b>\$918.00</b>	
<b>SUBTOTAL =</b>				<b>\$918.00</b>	
Processing fee of <b>\$130.00</b> for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492 (f)). <input type="checkbox"/> 20 <input type="checkbox"/> 30 +				<b>\$0.00</b>	
<b>TOTAL NATIONAL FEE =</b>				<b>\$918.00</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). <input type="checkbox"/>				<b>\$0.00</b>	
<b>TOTAL FEES ENCLOSED =</b>				<b>\$918.00</b>	
				Amount to be: refunded	\$
				charged	\$

☒ A check in the amount of **\$918.00** to cover the above fees is enclosed.  
☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the above fees.  
 A duplicate copy of this sheet is enclosed.


☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. **501496** A duplicate copy of this sheet is enclosed.

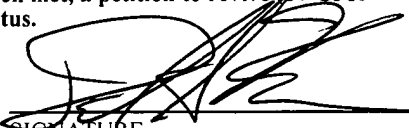
  

**NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.**

SEND ALL CORRESPONDENCE TO:

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**25246**  
PATENT, TRADEMARK OFFICE

  
 SIGNATURE  
 Dr. David S. Kerven, Esq.  
 NAME  
 43,712  
 REGISTRATION NUMBER  
 January 16, 2001  
 DATE

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****CERTIFICATE OF MAILING UNDER 37 CFR 1.10**

In Re Application of: **SHAFER, David A.**  
Application Serial No.: **T/B/A**  
Filing Date: **Herewith**  
Type of Patent: **Utility**  
Title: **METHODS FOR DETECTING AND MAPPING GENES,  
MUTATIONS AND VARIANT POLYNUCLEOTIDE  
SEQUENCES**  
Docket Ref: **1414.501U2**

Date of Express Mail: **January 16, 2001**  
Express Mail No. **EL697765310US**

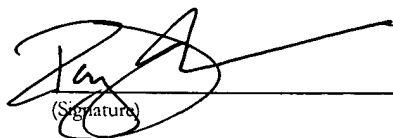
**ENCLOSURES**

1. Certificate of Express Mailing
  2. Patent Transmittal Letter to U.S. Receiving Office Under 35 U.S.C. 371, 2 pgs.
  3. Copy of Amendments to the Claims, 13 pgs.
  4. Declaration for Patent Application, 3 pgs.
  5. Recordation Form Cover Sheet, 1 pg.
  6. Assignment of Rights, Title and Interest in Invention, 3 pgs.
  7. Power of Attorney, 1 pg.
  8. Verified Statement Claiming Small Entity Status, 2 pgs.
  9. Statement Under 37 CFR 3.73(b), 1 pg. (with copies of Assignments, 8 pgs.)
  10. 2 - Checks in the amounts of \$918.00 and \$80.00
- Return Receipt Postcard

I HEREBY CERTIFY THAT THE ENCLOSURES AND FEE ARE BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESSEE" SERVICE UNDER 37 CFR 1.10 ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO BOX PATENT APPLICATION, ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.

Ray Jackson

(Name typed or printed)

  
(Signature)